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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/671,772	(09/29/2003	Keiji Moriyama	3673-0157P	7535	
2292	7590	03/27/2006		EXAMINER		
		KOLASCH & BIR	LEE, EDI	LEE, EDMUND H		
PO BOX 74' FALLS CHU		A 22040-0747	ART UNIT	PAPER NUMBER		
				1732		
				DATE MAILED: 03/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)					
		10/671,	10/671,772 MORIYAMA ET		AL.				
	Office Action Summary	Examin	er	Art Unit					
		EDMUN	D H. LEE	1732					
Period fo	The MAILING DATE of this commu or Reply	nica tion appears on ti	ne cove r sheet w	vith the correspondence a	ddress				
WHIC - Exte after - If NC - Failt Any	ORTENED STATUTORY PERIOD IN CHEVER IS LONGER, FROM THE IN INSIDE OF THE	MAILING DATE OF T s of 37 CFR 1.136(a). In no e munication. statutory period will apply and y will, by statute, cause the ap	HIS COMMUN event, however, may a will expire SIX (6) MO optication to become A	ICATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).					
Status				,					
1)□	Responsive to communication(s) fil	ed on .							
2a)□	This action is FINAL .	2b)⊠ This action is	non-final.						
3)□	Since this application is in condition	n for allowance excer	ot for formal ma	tters, prosecution as to th	ne merits is				
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)⊠	Claim(s) 1-5 is/are pending in the a	pplication.							
,—	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	• • • • • • • • • • • • • • • • • • • •								
6)⊠	☐ Claim(s) 1-5 is/are rejected.								
7)									
8)□	Claim(s) are subject to restri	i ctio n and/or election	requirement.						
Applicat	ion Papers								
9)	The specification is objected to by the	ne Examiner.							
•	The drawing(s) filed on is/are		o) obj ected to	by the Examiner.					
	Applicant may not request that any obje	ection to the drawing(s)	be held in abeya	nce. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including	g the correction is requ	ired if the drawin	g(s) is objected to. See 37 C	CFR 1.121(d).				
11)	The oath or declaration is objected	to by the Examiner. N	Note the attache	ed Office Action or form P	TO-152.				
Priority (under 35 U.S.C. § 119								
-	Acknowledgment is made of a claim	n for foreign priority u	nder 35 U.S.C .	§ 119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:								
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 								
	•				J Ctopp				
	 Copies of the certified copies application from the Internati 			ir received in this Nationa	ıı Staye				
* (See the attached detailed Office acti			t received					
	see the attached detailed office acti	on for a list of the con	amed copies no	r rodorvou.					
Attach	(d/a)								
Attachmen	ce of References Cited (PTO-892)		4) Interview	Summary (PTO-413)					
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (Pa per No	(s)/Mail Date					
	mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date	r PTO/SB/08)	5)	Informal Patent Application (PT 	O-152)				

DETAILED ACTION

1. The disclosure is objected to because of the following informalities: there are numerous spelling and grammatical errors in the specification, e.g. pg 1, In 10. Please review the entire specification for mistakes.

Appropriate correction is required.

2. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "a bowl-shaped half shell" (cl 1, ln 2) is indefinite because the scope and breadth of the term "bowl-shaped" is unascertainable. The phrase --hemispherical half shells-- is suggested.

The phrase "a bowl-shaped half shell" (cl 1, ln 2) is indefinite because there should really be more than one half shell formed. The remaining steps of claim 1 require the use of more than one half shell.

The phrase "two half shells" (cl 1, ln 4) is indefinite because it is unclear whether or not the half shells are related to the half shell formed in lines 2-3 of the claim 1. If they are the same then it should be positively and clearly recited as such.

The phrase "the half shells" (cl 1,ln 5) is indefinite because it is unclear whether or not the shells are the shells mentioned in line 4 or other half shells. If they are the half shells mentioned in line 4 then it should be positively and clearly recited as such.

The third step of claim 1 (cl 1, ln 8) is indefinite because it is unclear as to whether or not the mold is clamped with something inside. If the mold is clamped with

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the solid core and the two half shells therein then it should be positively and clearly recited as such. It should be noted that the specification supports clamping the mold while the core and two half shells are mounted in the hemispherical cavity of the lower portion.

The phrase "and causing the excessive thermoplastic resin composition to flow out of the spherical cavity" (cl 1, Ins 12-14) is indefinite because it is unclear as to what causes the flow. The specification supports the flowing being caused by heating and pressurizing of the resin composition during the mold clamping. See page 5, 3rd paragraph.

The fifth step of claim 1 is indefinite because it is unclear as to whether or not it is related to the fourth step. If the fifth step is performed after the fourth step then it should be positively and clearly recited as such. The specification supports the fifth step occurring after the fourth step. See page 6, 1st full paragraph.

The phrase "wherein...put at the second step" (cl 1, Ins 19-20) is indefinite because it is idiomatically incorrect.

The phrase "set to be 105% to 120%" (cl 1, ln 20) is indefinite because it is unclear as to whether or not it is set. The phrase "to be" should be replaced with --is--.

Correction is required.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following US patents show the state of the art: 6093357; 4501715; 3819795; 6905647; and 6846442.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDMUND H. LEE whose telephone number is 571.272.1204. The examiner can normally be reached on MONDAY-THURSDAY FROM 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni can be reached on 571.272.1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EDMUND H. LEE Primary Examiner Art Unit 1732

2/15/02

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